



# MACH MiniFiche

## PORTABLE MICROFICHE SCANNER

Designed using the industry-acclaimed Meikel Technology MACH7 production microfiche scanner as its core influence, the Crowley-manufactured MACH Mini Fiche offers collection owners a compact, manual load solution to digitize all formats of microfiche and aperture cards in excellent quality.

Durable and affordable, the MACH Mini Fiche is ideal for institutions requiring a robust scanner that fits easily into crowded workstations or can be transported between departments. Using industry-favorite Quantum software, the MACH Mini Fiche provides high-quality images, comprehensive editing features and efficient workflows.



**SMALL SIZE.  
BIG SCANNING POWER.**

“Having used the Meikel scanners for more than a decade, I can say that the quality and capabilities of the scanners keep advancing.”

~ Luc Bodson, Technical Engineer, iGuana

## KEY FEATURES

### Dual-Camera System

The MACH Mini Fiche uses a single-pass\*, pre-scan camera that locates images before a second camera captures the frames as high-quality images. This ensures that only images and not blank film are scanned, saving time/digital storage space and eliminating rescans.

### Versatility

Step and Repeat. COM. Jackets and more. Using a CCD camera, condenser lens and smooth lighting, the MACH Mini Fiche expertly converts any microfiche format to a digital file. Both bitonal and grayscale images can be captured simultaneously without impacting speed.

### Superior Image Quality

The MACH Mini Fiche delivers clear and consistent image quality while offering a variety of automatic image adjustment features including: cropping; rotation; deskew; mirroring; inverting and more.

### Portable

The economically sized MACH Mini Fiche can be safely transported in a protective carrying case and is ideal for end users with multiple branches or projects in different locations.

### External PC

An external PC drives the MACH Mini Fiche for maximum uptime and easy technology updates.

### Advanced Software Features

The MACH Mini Fiche uses acclaimed Meikel Quantum software suite for precise, accurate front-end capture and post-capture editing. Features which increase efficiency for microfiche scanning include:

- ▶ **Serpentine scan** option to increase throughput and life of hardware
- ▶ **OCR Title Naming** to recognize header or title text for accurate, convenient file naming
- ▶ **Windows 11** support
- ▶ **Optical Character Recognition** to create text searchable files



## SIMPLE AND POWERFUL SOFTWARE

The MACH Mini Fiche is powered by FastFiche - an easy and intuitive software - and offers the ability to use the advanced Quantum software suite, all of which are operable within minutes of installation.

For those with multi-media collections, the QuantumScan and QuantumProcess softwares can be used on both microfiche and microfilm images scanned using MACH-series scanners.

## FastFiche

### On-the-fly Scanning and Processing Software

- ▶ Easy-access tabs for quick job set-up
- ▶ Advanced menus for detailed image enhancement
- ▶ Dual-scan capability to capture and view both bitonal and grayscale images simultaneously\*\* without impacting speed
- ▶ Image quality controls and previews for real-time image enhancement
- ▶ Flexible file-naming capabilities

## Quantum Scan

### Advanced Capture Software

- ▶ Optimum resolution
- ▶ Project presets
- ▶ Image quality settings
- ▶ Pre-scan testing
- ▶ Multiple ribbon output options
- ▶ Easy workflow integration

## Quantum Process

### Revolutionary Processing Software

- ▶ Optical Character Recognition (OCR) for keyword search
- ▶ Automatic frame or fixed-grid image detection
- ▶ Batch processing
- ▶ Editing toolkit
- ▶ Fixed-grid frame replication
- ▶ Irregular frame flag
- ▶ Blackout framing
- ▶ Image enhancement
- ▶ Dual output option
- ▶ Document separation tagging

\*\*Using direct output scanning

HARDWARE	
<b>Camera/Optics</b>	Up to 12-bit dynamic range with gamma correction grayscale output. Full depth of pixels processed. Advanced adaptive Automatic Gain Control (AGC) handles varying film density in real-time across the fiche Dual-camera system locates frames before capture Full 8,192 pixel CCD array for highest true optical dpi in the industry Mekel "smoothlight" fiber optic bundle balances lighting across entire scan area; no hot spots or shadowing
<b>Resolution</b>	100-600 true optical dpi; 4x-96x reduction ratio
<b>Speed (Fully Processed)</b>	24x/200 dpi: Up to 130 ppm 42x/200 dpi: Up to 75 ppm 48x/200 dpi: Up to 65 ppm
<b>Film Types</b>	Supports all standard aperture card and fiche types including: standard or long jackets; COM; AB Dick; Ultra Fiche and Microx; 16 mm or 35 mm; combo 16/35 mm; simplex or duplex; positive or negative; diazo; silver; vesicular; duplicates; cine/comic mode formats

GENERAL TECHNICAL INFORMATION	
<b>Agency Approvals</b>	FCC, CE and RoHs certification
<b>Power Requirement</b>	50Hz or 60Hz/100v to 240v AC/800 watt single-phase, autosensing for domestic or international use
<b>Operating System</b>	Windows 10 and 11 Pro Includes external Dell high-end multi-processor, multi-core workstation for maximum uptime and performance Visit <a href="http://www.thecrowleycompany.com">www.thecrowleycompany.com</a> for full PC specs
<b>Dimensions (LxWxH)</b>	12 x 13 x 24 in (305 x 330 x 610 mm)
<b>Weight</b>	38 lbs/17 kg

CAPTURE FEATURES		
Scan Options	Microfiche	Aperture Card
	Scan modes: row-by-row; serpentine; single	Film image
	User-defined title bar/header (translucent/opaque) pre-scans for layout, naming and indexing references Simultaneous grayscale and bitonal capture and output for increased efficiency (FastFiche and QuantumProcess)	
<b>Frame Detection</b>	Single-pass intelligent pre-scan automatically detects all images regardless of size or location "Presence Pre-scan" feature allows for faster throughput on COM by automatically detecting and scanning only those frames that contain data	
<b>Image Digitization and Processing</b>	Real-time image sharpen and enhancement done in hardware with no reduction in throughput Interactive selection of individual images or automatic capture of entire fiche row as an individual image Real-time automatic and manual control of rotation, cropping, deskew and automatic compression of film background density Real-time image processing provides 5x the typical processing speed Task set-up by job or saved in set up file Optical Character Recognition (OCR) of selected title bar text Optical Character Recognition (OCR) of final output images (QuantumProcess only)	
<b>Viewing/Browsing</b>	View full or partial screen in real-time or by thumbnail, emulating fiche layout Real-time dual view of bitonal and grayscale images (FastFiche and QuantumProcess)	

OUTPUT	
<b>File Formats</b>	Simultaneous output to grayscale and bitonal formats (FastFiche and QuantumProcess) Output to single or multi-page TIFF and PDF (FastFiche and QuantumProcess) Output to TIFF (G4/LZW/uncompressed), JPEG, PDF, PDF/A, JPEG2000, bitonal CALS type 1 and others (QuantumProcess only) OCR output to single/multi-page .PDF, .TXT and HOCR formats (QuantumProcess only)

# Ways to get in touch



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